



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 82-4-L107-835-(L104)-EM10W-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from BALLABS TEST NO. 20804.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 02-24-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO. 64836
 [LUMINAIRE] 4-28 LED 22" ARRAYS 4' INDUSTRIAL LUMINAIRE
 [MORE] WHITE REFLECTOR w/OPEN BOTTOM
 [LUMCAT] 82-4-L107-835-(L104)-EM10W-DIM-UNV(EMER MODE)

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1540
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	1.08 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1473	1450	1431
55	1439	1425	739
65	1350	735	721
75	1074	238	222
85	371	186	82

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	575.088	575.088	575.088	575.088	575.088
5	584.254	574.123	569.057	568.092	568.333
10	577.983	568.092	563.026	562.061	562.061
15	568.333	558.202	553.136	566.162	575.088
20	554.342	544.211	555.066	551.206	560.132
25	535.044	526.842	539.145	519.123	519.605
30	513.816	507.785	501.031	498.136	497.654
35	486.798	498.618	472.807	475.219	472.807
40	452.785	475.219	446.996	444.825	441.689
45	419.496	418.048	412.983	407.917	407.675
50	377.040	373.421	371.491	360.636	229.408
55	332.412	331.447	329.276	172.237	170.789
60	280.307	284.649	151.491	148.355	148.355
65	229.890	228.925	125.197	120.855	122.785
70	169.825	171.754	96.491	33.531	26.294
75	111.930	68.026	24.846	22.917	23.158
80	57.654	29.430	17.851	14.956	13.991
85	13.026	10.855	6.513	3.377	2.895
90	0.482	4.583	1.689	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	213.16	N.A.	13.80
0-30	456.94	N.A.	29.70
0-40	757.99	N.A.	49.20
0-60	1317.48	N.A.	85.50
0-80	1529.08	N.A.	99.30
0-90	1540.1	N.A.	100.00
10-90	1485.69	N.A.	96.50
20-40	544.83	N.A.	35.40
20-50	859.95	N.A.	55.80
40-70	714.16	N.A.	46.40
60-80	211.60	N.A.	13.70
70-80	56.93	N.A.	3.70
80-90	11.02	N.A.	0.70
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1540.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	54.41
10-20	158.75
20-30	243.79
30-40	301.04
40-50	315.12
50-60	244.37
60-70	154.67
70-80	56.93
80-90	11.02
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	14.2	15.7	14.5	16.0	16.4	9.6	11.2	10.0	11.5	11.8
	3H	15.9	17.3	16.3	17.7	18.0	10.2	11.6	10.6	12.0	12.3
	4H	16.4	17.7	16.8	18.0	18.4	10.3	11.6	10.7	12.0	12.4
	6H	16.7	17.9	17.1	18.2	18.6	10.4	11.6	10.8	12.0	12.4
	8H	16.7	17.9	17.2	18.3	18.7	10.4	11.6	10.8	11.9	12.3
	12H	16.7	17.8	17.2	18.2	18.6	10.4	11.5	10.8	11.9	12.3

UGR Viewed Endwise

4H	2H	14.2	15.6	14.6	15.9	16.3	10.3	11.7	10.7	12.0	12.4
	3H	16.3	17.3	16.7	17.7	18.1	11.1	12.1	11.5	12.5	12.9
	4H	16.8	17.7	17.2	18.1	18.6	11.2	12.1	11.6	12.6	13.0
	6H	17.1	17.9	17.5	18.4	18.8	11.3	12.1	11.7	12.6	13.0
	8H	17.2	18.0	17.6	18.4	18.9	11.3	12.1	11.8	12.5	13.0
	12H	17.2	17.9	17.7	18.4	18.9	11.3	12.0	11.8	12.5	12.9

8H	4H	16.7	17.5	17.2	17.9	18.4	11.5	12.3	11.9	12.7	13.2
	6H	17.0	17.7	17.5	18.2	18.7	11.6	12.3	12.1	12.8	13.2
	8H	17.2	17.7	17.7	18.3	18.7	11.7	12.2	12.2	12.8	13.2
	12H	17.2	17.7	17.7	18.2	18.8	11.7	12.2	12.2	12.7	13.2

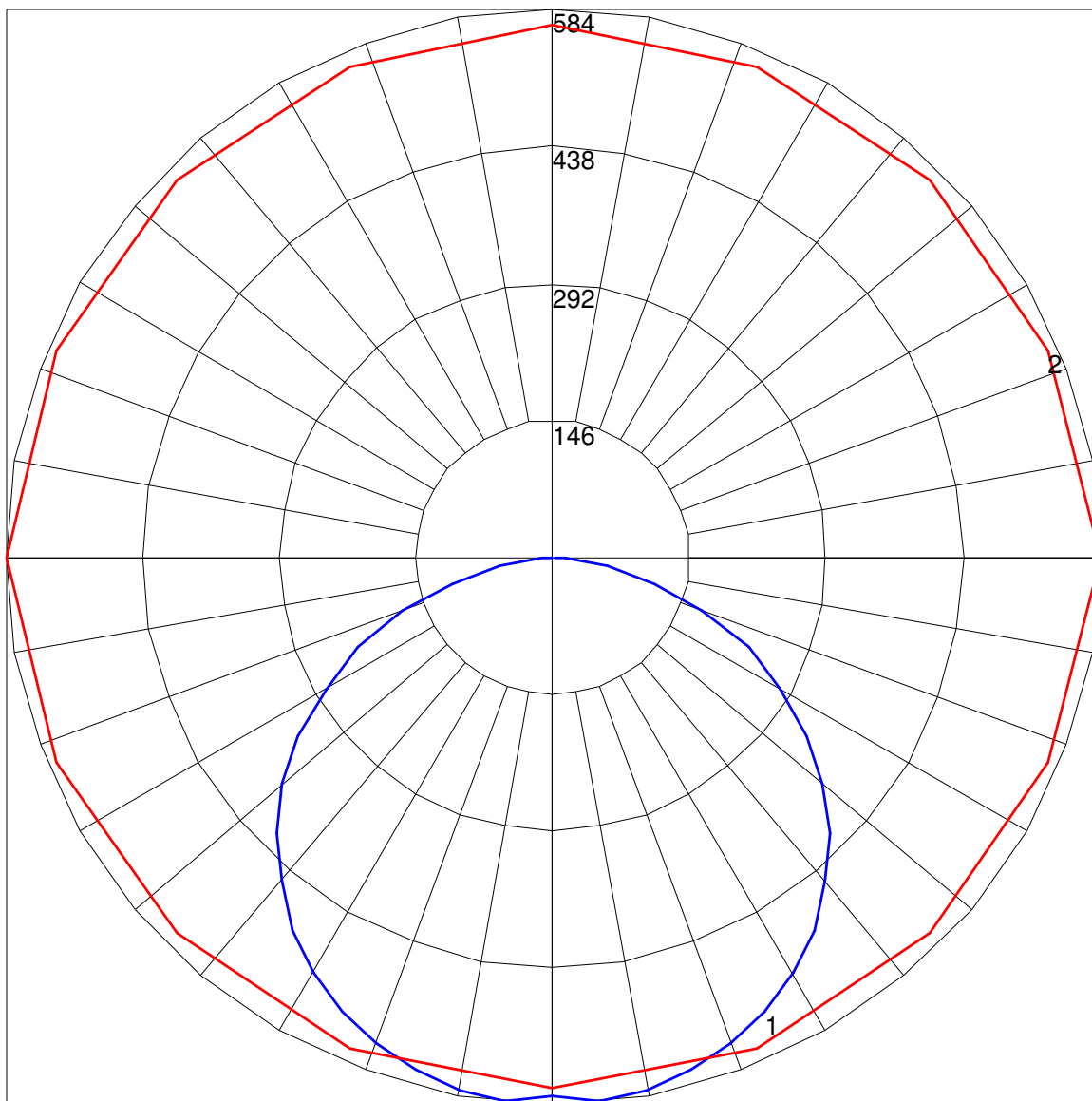
12H	4H	16.7	17.4	17.2	17.9	18.3	11.5	12.2	12.0	12.7	13.2
	6H	17.0	17.6	17.6	18.1	18.6	11.7	12.2	12.2	12.7	13.3
	8H	17.1	17.7	17.7	18.2	18.7	11.7	12.2	12.2	12.7	13.3

Maximum UGR = 18.9

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POLAR GRAPH



Maximum Candela = 584.254 Located At Horizontal Angle = 0, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)